

1/3

CATGAAGGTCCCTCCTGCTTCTTTCTGTCCCTCAGTGCAGACTGAGCAACCGCAGGTCGTCACTG
 AGCATCCCAGCATGGAGGCAGCCCTGACCGGGCCAACGCCCTCGCACTCTGGGCCAACTACACTTCTCTGAC
 TGGCAGAACCTCGTGGCAGGAGACGTTATGGGGCGAGTCCCAGAACCCACGGTGAAGCACTGCTCATCGTGGC
 CTACTCATTCAACCATCGTCTTCGCTCTCGTAATGTCCTGGTCTGTCAATGTCATCTCAAGAACCGAGCGATGC
 ACTCGGCCACCAGCCCTTCATTGTCACCTGGCAGTGGCGGACATCATGATCACATTGCTCAACACGCCCTCACT
 TTGGTCCGCTTGTGAACAGCACATGGGTGTTGGGAAGGGCATGTCATGTCAGTCAGTCAGTCTTGCTCAGTACTGTC
 TCTACATGTCCTCAGCACTGACAGCTATCGCAGTGGACGCCACCAGGTCAATGCACTCCACTGAAGCCTC
 GGATCTCCATCACCAAGGGTGTCAATATATTGTCATCTGGGTCAATGGTACCTTCTCTCGCCACATGCC
 ATCTGCCAGAAACTGTTACCTCAAGTACAGTGAGGACATTGTGCGCTCCCTCTGCCCTGCCGACTTCCGGAGCC
 AGCTGACCTCTCTGGAAGTATCTGGACCTGGCACCTCATCCTGCTCACACTTCACTCTTCATTATCTCAG
 TGCCCTATGCTCGTGGCAAGAAGCTGTGGCTCTGTAACACCATTGGCAGCTGACCAAGAGCAGTACCTCGCC
 CTGCGACGCAAGAAGAACCCGCTGAAGATGCTGGCTGTGGTAGTCCTCTTGCCCTCTGCTGGTTCCCT
 CAACTGCTATGTCCTCCTTGTCAGCAAGGCCATCCACACCAACAATGCCCTCTACTTGCCTTCACTGGTTG
 CCATGAGCAGTACTTGTATAACCCCTCATCTACTGCTGGCTCAATGAGAACCTTAGGGTTGAGCTTAAGGCAATTG
 CTGAGCATGCCCCAAAGGCCACCAAGCCGAGGAAGACAGGCTACCCCTCCCTAGTCCTCTCAGGGTGGCATG
 GACAGAGAAGAGCCATGGTGGAGGGCTCCACTACCTAACCAATTGCTGGCCCTCTCCAGATCCAGTCTGGGAAGA
 CAGATCTGCATCTGTGGAACCCGGTGTGGCCATGAGTTAGGAAAGCTGGAAGTTGGTGGGGAGGGTTCTTCCT
 CTCACANTTGCACAGACACTAACAGAGTTGAAAGTAACACAGAACAGCAGTGAGATGCTTGGGTTCTAGGAACCTGT
 CCAGCCCCATCTGATTGCAAACCTTCTAGAAGATGCCATGAGGTGGTGTGTAGATCTTGAGCAAGAGCTCTGG
 AAACACCTCAGCTTCAACAGAGGCTGGTCCAGTCACCCACCTCAATTGTCATCTGCCACCTTGCCCTTC
 ACTGCTGAGCAACCACAGGGGACTTGAGCCATACTATTGTCGGGCTGCCACATGCTCAGAAAAGAACAGGCAC
 AAAGGTTCTGAAGTCATTGGAACAGGAATAATCACACAGCTCAGTGACCTTGGCTCTATCCATGACCAGACAGG
 ACCCATTGGCTCTAAAAACAAAGAGAAATTAGTATTGCCACTTTGAAAGTCAGAAAAGTAAAGAAATGAGT
 TCAGCCCTCAATTGTAAGGAAAAAGAAAAAGAAAAAGAAAAGCTGTTAATATGCTGTA
 AATTATCTGTAGCTTGCTTCTGTGTACATTGTAATTAAACTCTGAACACTACACGTGTCATGTAGAT
 TGTAAATAATTAGCAAGAAACTGGAATATATCAGAGTATTATTGAATTC (SEQ ID NO:1)

MKVPPVLLFLSSVRATEQPQVVTEHPSMEAALTGPNASSHFWANYFSDWQNFVGRRRYGAESQNPTVKALLIVA
 YSFIVFSLFGNVLVCVIFKNQRMHSATSLFIVNLAVADIMITIILNTPFTLVRVNSTWVFGKGMCHVSRAQYCS
 LHVSALTLTIAIVDRHQVIMHPLKPRISITKGVIYIAVIWVMATFFSLPHAIQCQLFTFKYSEDIVRSLCLPDFPEP
 ADLFWKYLDLATFILLYLLPLF1ISVAYARVAKKLWLNCNTIGDVTEQYLALRRKKKTTVKMLVLVUVLFALCWFPPL
 NCYVLLSSKAIHTNNALYFAFWFAMSSTCYNPIYCWLNENFRVELKALLSMCQRPPKPQEDRLPSPVPSFRVAW
 TEKSHGRRAPLPNHLPSSQIQSGKTDLSSVEPVVAMS (SEQ ID NO:2)

FIGURE 1

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

```

GGGGTGGCAGTCGGCACCATCAGGCTCCCTGGCGTTGGAGTTTCTCTGTGGTCCG
ACTCTCCGGAGGATCTCGGTTGTCTCCAAGTCGGAACCTGGCACGGTCCAGGTTCACTC
GGAGGTCGGGCTCCCTCTGTGCCCGTGCCTCCAGGCTCCCTGTGGTGTG
GACTCCTAGCCGGTGCCTAGCCCCCTCGCACCCAGGCTCAGGCACAGAGCCCCGGC
AGGGAGCTCAGCCCTTGTGCCCTAGAGCTGCACTGGCATGAAGGTTCCCTGTCC
TGCTCTCTTCTCTGTCTCAGTGCAGACTGAGCAACCGCAGGTGTCACTGAGC
ATCCCAGCATGGAGGCAGCCCTGACCGGGCCAACGCCCTCGCACTTCTGGGCCAACT
ACACTTTCTCTGACTGGCAGAACCTCGTGGGCAGGGACGTTATGGGGCCAGTCCCAGA
ACCCACCGTGAAAGCACTGCTCATCGTGGCCTACTCATTACCATCGTCTTCGCTCT
TCGGTAATGTCCCTGGCTGTGATGTCATCTCAAGAACCCAGCGCATGCACTCGGCCACCA
GCCTCTTCATTGTCACACCTGGCAGTGGCGACATCATGATCACATTGCTAACACGCCCT
TCACTTTGGTCCCGCTTGTGAAACAGCACATGGGTGTTGGGAAGGGCATGTCATGTCA
GTCGCTTGTCTCAGTACTGTTCTACATGTCCAGCACTGACTCTGACAGCTATCGCAG
TGGACCGCCACCAGTCATCATGCCACTGAAGCTCGGATCTCCATACCAAGGGTG
TCATATAATTGCTGTCATCTGGGTATGGCTACCTCTCTCTGCCACATGCCATCT
GCCAGAAACTGTTACCTCAAGTACAGTGAGGACATTGTGCCCTCCCTTGCCCTGCCGG
ACTTCCCGAGCCAGCTGACCTCTCTGGAAAGTATCTGGACCTGGCACCTCATCCGC
TCTACCTACTTCCACTTCAATTCTCAGTGGCTATGCTGTTGGCAAGAAGCTGT
GGCTCTGTAACACCATTGGCGACGTGACCGACAGAGCACTACCTCGCCCTCGGACGCAAGA
AGAAGACACCCCGTGAAGATGCTGGTCTGTGGTAGTCCTTGTGCCCTGCTGGTCTCC
CTCTCAACTGCTATGTCCTCTTGTCCAGCAAGGCCATCCACACCAAAATGCCCTCT
ACTTGCCTTCCACTGGTTGGCATGAGCAGTACTTGTATAACCCCTCATCTACTGCT
GGCTCAATGAGAACTTGTGGGTTGAGCTTAAGGCATGCTGAGCATGTGCCAAAGGCCAC
CCAAGCCGAGGAAGACAGGCTACCCCTCCCCAGTTCCCTCAGGGTGGCATGGACAG
AGAAGAGCCATGGTCGGAGGGCTCAACTACCAATCACCCTTGCCCTCTCCAGAATCC
AGTCTGGGAAGACAGATCTGTCATCTGTGGAAACCCGTTGTGGCATGAGTAGGAAAGC
TGGAAGTTGGTGGGGAGGGTTCTTCTCTCACAATTGAGCAGACACTAACAGAGTTGG
AAAGTAACACAGAAGCAGTGGAGATGCTGGTTCTAGGAACCTGTCCAGCCCCATCTGA
TTTGCAAACTTTCTAGAAGATGCCATGAGGTGGTAGTCAGTCTTGTGAGCAAGAGCTC
TGGAAACCCACCTCAGCTCAACAGAGGCTGGTCAGTCACCCACCTCCAATTGTGTAGCA
TCTGCCACCTTGCCTTCCACTGCTGAGCAACCACAGGGGACTTGAGCCATACTATTG
GTGGGCCTGCCACATGTCAGAAAAGAACAGGCACAAAGGCTTCTGAAGTCATTGGA
ACAGGAATAATCACACAGCTCAGTGACCTGGCTATCCATGACCAAGACAGGACCAT
TTTGGCTCTTAAACAAAGAGAAATTAGTATTGCACTTGTGAAAGTTTCAGAAAGATA
AAGAAATGAGTTCAGCCCTCAATTGTAAATTATGCTGTAATTATCTGTAGTTGCCTCTGTGTGT
ACATTGTACTTTAAAATCCTGAACACAGTGTCCATGTAGATTCTAATAATTAGCAA
GAAACTGGAATATATCAGAGTATTATTGAATTC

```

FIGURE 2A

3/3

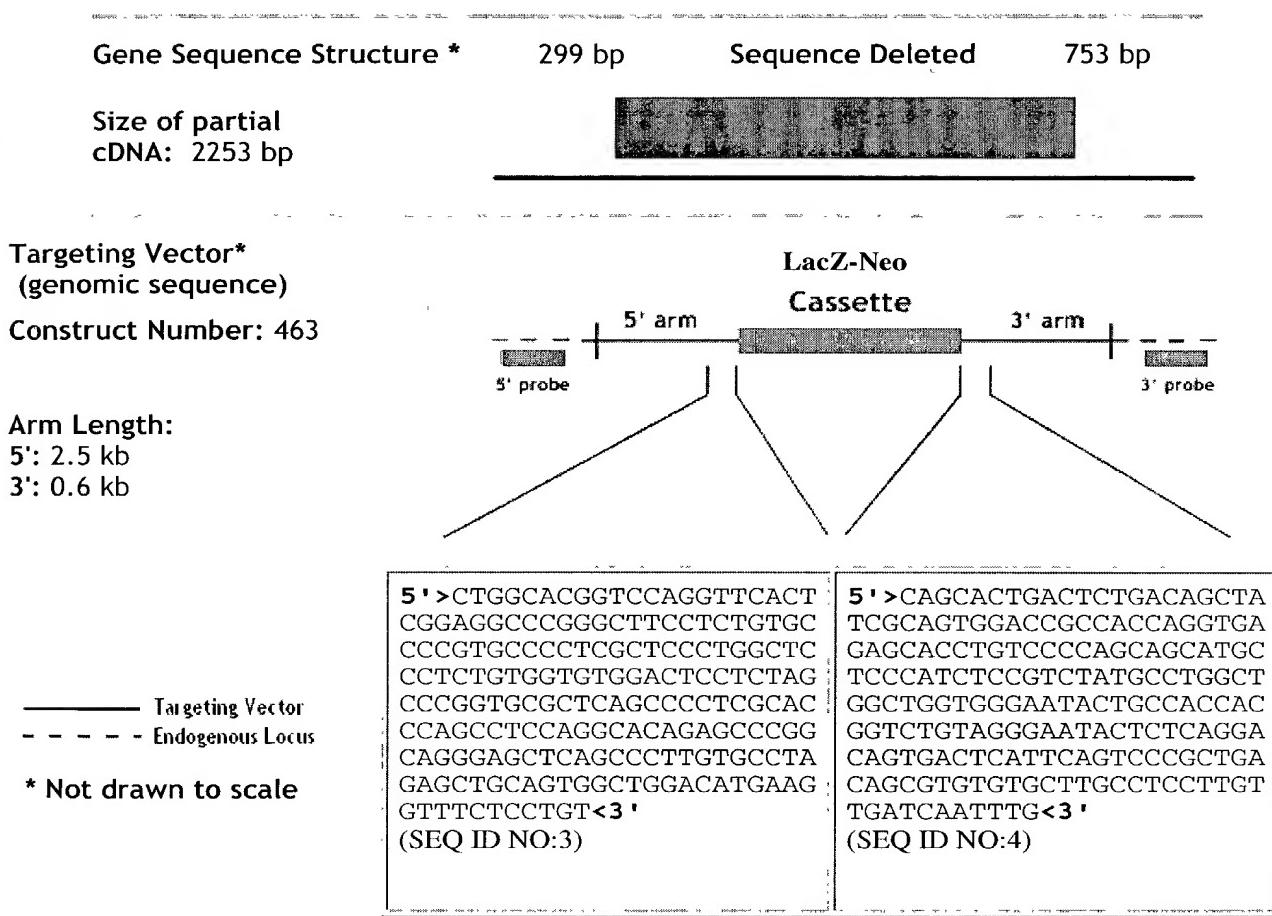


FIGURE 2B